CLAIMS

[c0001]   A method for comparing a query against data contained within a database

comprising the steps of:

(a) receiving said query;

(b) extracting a plurality of attributes from said query;

(c) converting said plurality of attributes from said query, using at least one linguistic

pattern matching analytical tool, into a plurality of linguistic pattern strings;

(c) comparing said plurality of linguistic pattern strings with at least one stored linguistic

pattern string from at least one stored attribute contained within said database for providing a set

of matches;

(d) analyzing each match of said set of matches, using said at least one linguistic pattern

matching analytical tool, to provide at least one set of matched attributes; and

(e) combining all of said at least one set of matched attributes to provide a combined

result.

[c0002]   The method of claim 1, further including the step of filtering said combined result

according to pre-selected criteria.

[c0003]   The method of claim 2, further including the step of filtering said combined result

according to matching a selected attribute.

[c0004]   The method of claim 1, further comprising the step of employing a Metaphone based analysis, a Phonex based analysis, a Soundex based analysis, an N-gram based analysis, an edit-distance based analysis and a dictionaries based analysis.

[c005] A method of comparing query information about a party against a plurality of restricted parties information contained within a database comprising the steps of:

(a) receiving said query about said party;

(b) extracting a plurality of attributes from said query;

(c) converting said plurality of attributes from said query, using at least one linguistic pattern matching analytical tool, into a plurality of linguistic pattern strings;

(d) comparing said plurality of linguistic pattern strings with at least one stored linguistic pattern string from said plurality of restricted parties information contained within said database for providing a set of matches;

(d) analyzing each match of said set of matches, using said at least one linguistic pattern matching analytical tool, to provide at least one set of matched attributes; and

(e) combining all of said at least one set of matched attributes to provide a combined result.

[c0006]   The method of claim 5, further including the step of filtering said combined result according to pre-selected criteria.

[c0007]   The method of claim 6, further including the step of filtering said combined result according to matching a selected attribute.

[c0008]   The method of claim 5, further comprising the step of employing a Metaphone based analysis, a Phonex based analysis, a Soundex based analysis, an N-gram based analysis, an edit-distance based analysis and a dictionaries based analysis.

[c0009]   A system for comparing a query against data contained within at least one database comprising:

(a) a central processing unit having at least one electronic communications port for receiving said query, wherein said central processing unit is attached to said at least one database;

(b) at least one extraction tool accessible to said central processing unit for extracting a plurality of attributes from said query;

(c) at least one linguistic pattern analytical tool accessible to said central processing unit for converting said plurality of attributes from said query into a plurality of linguistic pattern strings, and for comparing said plurality of linguistic pattern strings with at least one stored linguistic pattern string contained within at least one of said database for providing a set of

matches;

(d) said at least one linguistic pattern analytical tool accessible to said central processing unit for analyzing each match of said set of matches to provide at least one set of matched attributes; and

(e) at least one combining tool accessible to said central processing unit for combining all of said at least one set of matched attributes to provide a combined result.

[c0010]   The system of claim 9, further comprising at least one filtering tool accessible to said central processing unit for filtering said combined result according to pre-selected criteria.

[c0011]   The system of claim 10, wherein said at least one filtering tool filters said combined result according to matching a selected attribute.

[c0012]   The system of claim 105, wherein said at least one linguistic pattern analytical tool is comprised of a Metaphone based analysis, a Phonex based analysis, a Soundex based analysis, an N-gram based analysis, an edit-distance based analysis and a dictionaries based analysis.

[c0013]   A computer program product for querying a database comprising:

a computer useable medium having a computer readable program code embodied in the computer usable medium for causing an application program to execute on a computer system, the computer readable program code comprising:

computer readable program code for receiving a query;

computer readable program code for extracting a plurality of attributes from said query;

computer readable program code for at least one linguistic pattern analytical tool for converting a plurality of information from said query into a plurality of linguistic pattern strings;

computer readable program code for comparing said plurality of linguistic pattern strings with at least one stored linguistic pattern string contained within said database to provide a set of matches;

computer readable program code for analyzing each match of said set of matches to provide at least one set of matched attributes; and

computer readable program code for combining all of said at least one set of matched attributes to provide a combined result.

[c0014]   The computer program product of claim 13, further comprising computer readable code for filtering said combined result according to pre-selected criteria.

[c0015]   The computer program product of claim 14, wherein said computer readable code for filtering filters said combined result according to matching a selected attribute.

[c0016]   The computer program product of claim 13, wherein said computer readable program code for converting a plurality of information from said query into a plurality of linguistic pattern strings and for comparing said plurality of linguistic pattern strings with at least one stored linguistic pattern string contained within said database to provide a set of matches is comprised of Metaphone based analysis code, Phonex based analysis code, Soundex based analysis code, N-gram based analysis code, edit-distance based analysis code and dictionaries based analysis code.

[c0017]   A method for comparing a query against data contained within a database comprising the steps of:

(a) receiving said query;

(b) extracting a plurality of attributes from said query;

(c) converting said plurality of attributes, using a Metaphone based linguistic pattern analytical tool, into a plurality of Metaphone linguistic pattern strings;

(d) comparing at least one of said plurality of Metaphone linguistic pattern strings with said at least one stored linguistic pattern string contained within said database to provide plurality of Metaphone matches;

(e) converting said plurality of attributes, using a Phonex based linguistic pattern analytical tool, into a plurality of Phonex linguistic pattern strings;

(f) comparing at least one of said plurality of Phonex linguistic pattern strings with said at least one stored linguistic pattern string contained within said database to provide a plurality of Phonex matches;

(g) converting said plurality of attributes, using a Soundex based linguistic pattern analytical tool, into a plurality of Soundex linguistic pattern strings;

(h) comparing at least one of said plurality of Soundex linguistic pattern strings with said at least one stored linguistic pattern string contained within said database to provide a plurality of Soundex matches;

(i) converting said plurality of attributes, using an N-gram based linguistic pattern analytical tool, into a plurality of N-gram linguistic pattern strings;

(j) comparing at least one of said plurality of N-gram linguistic pattern strings with at least one stored linguistic pattern string contained within said database to provide a plurality of N-gram matches;

(k) combining said plurality of Metaphone matches, said plurality of Phonex Matches, said plurality of Soundex matches, and said plurality of N-gram matches to form a set of matches;

(l) analyzing each match of said set of matches using said Metaphone based linguistic pattern analytical tool, Phonex based linguistic pattern analytical tool, said Soundex based

linguistic pattern analytical tool, an edit-distance based linguistic pattern analytical tool, and a

dictionaries based linguistic pattern analytical tool to provide at least one set of matched

attributes; and

(m) combining all of said at least one set of matched attributes to provide a combined

result.